

## MEETING NOTES

### 200 West Tank Farms Interim Measures Investigations

**MEETING DATE:** August 21, 2013

**LOCATION:** Washington State Department of Ecology, Richland Office

**ATTENDEES:**

Jim Alzheimer (Ecology)	Dan Parker (WRPS)
Mike Barnes (Ecology)	Julie Robertson (Freestone Environmental Services)
Joe Caggiano (Ecology)	Kristin Scott (WRPS)
Susan Eberlein (WRPS)	Maria Skorska (Ecology)
Les Fort (WRPS)	Harold Sydnor (WRPS)
Dan Glaser (WRPS)	Cindy Tabor (WRPS)
R.D. Hildebrand (DOE)	Becky Wiegman (WRPS)

**BACKGROUND:** This meeting was part of the continuing effort to provide a communication avenue between Ecology and DOE representatives to discuss the documents, field work, and results of interim measures investigations being undertaken at the 241-TX, 241-SX, and 241-U Tank Farms. A list of open and unresolved actions and the status of those actions will be tracked and resolutions documented as part of the meeting notes.

**DISCUSSION:**

**Prior Meeting Notes:**

- The July 2013 meeting notes were reported to have been signed by DOE and will be provided to Ecology for signature before the end of the day.
- Prior meeting notes were reported to have been placed into the Tri-Party Agreement Administrative Record.
- Ms. Tabor stated that Section 6.0 of the *200 West Area Tank Farms Interim Measures Work Plan* (RPP-PLAN-53808, Revision 1) requires that meeting notes for certain technical discussions related to the 200 West tank farms interim measures investigations be reviewed and signed by DOE and Ecology and entered into the Tri-Party Agreement Administrative Record. Notes taken during SX and TX Tank Farms soil sample collection depth meetings are subject to this requirement. Notes for the three SX Tank Farm meetings have been signed by DOE and were provided to Ecology for signature on August 20, 2013. Notes for the two TX Tank Farm meetings are being prepared for review.

**Status of the Work Plan:** The status of the approved work plan, RPP-PLAN-53808, Revision 1, remains unchanged.

**Status of the TX Farm SAP:** The status of the approved SAP, *Sampling and Analysis Plan for Soil Samples in Support of Interim Measure Planning at the 241-TX Tank Farm* (RPP-PLAN-54376, Rev. 1), remains unchanged.

**Status of Ongoing Field Work:** WRPS distributed a simple graphic illustrating the anticipated vadose zone field work schedule through the first quarter of fiscal year 2015. The general sequence has direct push fieldwork being performed first at SX Farm (Stage I/II), then C Farm, then back at SX Farm (Stage III installation of extraction and monitoring boreholes), and then TX Farm. In parallel, surface geophysical exploration (SGE) work will be conducted first at U Farm and then at C Farm.

The following field activities were discussed.

- TX Farm Direct Push: Ms. Tabor reported that work on the first eight boreholes is slightly behind schedule primarily due to resource constraints. WRPS anticipates completing field work and obtaining laboratory data on six of the first eight boreholes this fiscal year. The remaining two should be completed in the fall of 2013. WRPS expects to have sufficient data to support selection of the final four TX tank farm borehole locations before the end of calendar year 2013.
- SX Farm Direct Push and System Construction:
  - Mr. Parker reported that construction of the four monitoring/extraction wells has been completed, and development of the first well is underway. Equipment is being installed in the trailer offsite. Work planning documents are in preparation. WRPS anticipates performing the testing between October and December 2013.
  - Mr. Parker reported that discussions with Ms. Hendrickson (Ecology) regarding the waste management strategy for extracted SX pore water had been concluded to the satisfaction of all parties. This closes action 2013-06-19-2.
- U Farm and C Farm SGE Work: Data acquisition is complete at both tank farms, ahead of schedule. As a result, data analysis will begin ahead of schedule. Mr. Glaser stated that U Farm data analysis is underway, and C Farm data analysis is anticipated to begin at the start of fiscal year 2014.

**Data Status:** The lab is continuing to provide quick turn data and initial soil data packages to WRPS for review. WRPS reported that some nitrate and technetium values are above background at depth.

**New Topics:** The meeting attendees agreed to track actions from the June 2013 annual M-45-56 meeting in this monthly 200 West tank farms interim measures investigations status meeting. This closes action 2013-07-17. As a result, WRPS and DOE provided a status on eight actions from the M-45-56 meeting, as follows.

- Bring SX porewater extraction system design information to the next Interim Measures Investigation status meeting (June 19, 2013). (Parker) – This action was closed. The design information was provided on June 19, 2013.
- Schedule a presentation on the electrical resistivity correlation work to date. (Glaser) – This action was closed. A meeting has been scheduled for October 2013. A new action was taken to provide this presentation. **ACTION:** Provide presentation on electrical resistivity correlation work to date.



- Evaluate the potential for providing a single comprehensive report on the electrical resistivity correlation work to date. (Hildebrand) – Dr. Eberlein and Mr. Hildebrand reported that DOE and WRPS are discussing adding preparation of this report as new work scope in fiscal year 2014.
- Provide a copy of electrical resistivity technical documents to Maria Skorska to support preparation of material for discussion with interested parties. (Glaser) – This action was closed. The requested reports were provided to Ecology in electronic format on July 30, 2013.
- Set meeting for discussing criteria for selection of final 4 direct push locations in TX farm. (Tabor) – Ms. Tabor and Mr. Barnes will work together to identify the attendee list, and then Ms. Tabor will schedule the requested meeting.
- Provide periodic status of repairs to interim surface barriers. (Parker) – This action was closed based on the attendees agreeing to add an item on the matter to the monthly agenda. Mr. Parker provided a status report. Repairs were initiated in summer 2012 and are approximately 75% to 80% complete. Repairs were put on hold in 2012 when material supplies ran out and the weather turned. WRPS anticipates completing the repairs in September 2013 when the weather cools.
- Provide a schedule for the beta probe prototype field test and reporting. (Eberlein) – This action was closed with the provision of the following schedule:
  - Deploy beta probe: October 1, 2013 – March 31, 2014
  - Evaluate results: April 1, 2014 – July 31, 2014
  - Prepare report: August 1, 2014 – September 30, 2014.

Dr. Eberlein reported that achieving this schedule is contingent on identifying TX Farm locations that meet the criteria for testing the beta probe (i.e., locations having sufficiently elevated nitrate and technetium levels). The attendees agreed that selection of the final four TX Farm push locations should consider the need to identify a location for conducting the beta probe test.

- Schedule a meeting to brainstorm interim barrier needs for water intrusion reduction and other applications related to potential tank leaks. (Eberlein). – The attendees tentatively agreed to schedule this meeting on the morning of September 5, 2013.

Related to the discussion regarding interim barrier needs, WRPS took a new, two-part action.

**ACTION:** (a) Provide Ecology with the barrier monitoring report after it has been issued;  
(b) Schedule a meeting on barrier effectiveness/merits of barriers.

**Next Meeting:** The next meeting is scheduled for September 18, 2013, at 10:00 am.

**ACTIONS:** Refer to the following table. A date-based numbering system is used to track the actions. Actions will be removed from the list after DOE and Ecology have agreed to close the action.

R Douglas Hildebrand  
DOE Project Manager (print)

R. Hildebrand  
DOE Project Manager (signature)

9-17-2013  
Date

Jeffery J. Lyon  
Ecology Project Manager (print)

Jeffery J. Lyon  
Ecology Project Manager (signature)

9-19-13  
Date



**Action Items (2 pages)**

<b>Item #</b>	<b>Topic/Title</b>	<b>Actionee</b>	<b>Description</b>	<b>Status</b>
2013-06-19-2	Ensure appropriate waste management strategy is in place for extracted SX porewater.	Parker	Ensure appropriate waste management strategy is in place for extracted SX porewater	Closed
2013-07-17	Tracking of annual M-45-56 meeting actions	Eberlein	Determine whether actions captured at the annual M-45-56 meeting could be tracked as a part of this monthly interim measures investigation status meeting.	Closed
2013-08-21-1	Action from annual M-45-56 meeting	Parker	Bring SX porewater extraction system design information to the next Interim Measures Investigation status meeting (June 19, 2013).	New/Closed
2013-08-21-2	Action from annual M-45-56 meeting	Glaser	Schedule a presentation on the electrical resistivity correlation work to date.	New/Closed
2013-08-21-3	Action from annual M-45-56 meeting	Hildebrand	Evaluate the potential for providing a single comprehensive report on the electrical resistivity correlation work to date.	New/In process
2013-08-21-4	Action from annual M-45-56 meeting	Glaser	Provide a copy of electrical resistivity technical documents to Maria Skorska to support preparation of material for discussion with interested parties.	New/Closed
2013-08-21-5	Action from annual M-45-56 meeting	Tabor	Set meeting for discussing criteria for selection of final 4 direct push location in TX farm.	New/In process
2013-08-21-6	Action from annual M-45-56 meeting	Parker	Provide periodic status of repairs to interim surface barriers (this could be done in the monthly Interim Measures Work Plan meetings).	New/Closed with the addition of this topic on the monthly agenda
2013-08-21-7	Action from annual M-45-56 meeting	Eberlein	Provide a schedule for the beta probe prototype field test and reporting.	New/Closed



**Action Items (2 pages)**

<b>Item #</b>	<b>Topic/Title</b>	<b>Actionee</b>	<b>Description</b>	<b>Status</b>
2013-08-21-8	Action from annual M-45-56 meeting	Eberlein	Schedule a meeting to brainstorm interim barrier needs for water intrusion reduction and other applications related to potential tank leaks.	New/In process
2013-08-21-9	Electrical resistivity presentation	Glaser	Provide presentation on electrical resistivity correlation work to date.	New
2013-08-21-9	Barrier effectiveness	Eberlein	(a) Provide Ecology with the barrier monitoring report after it has been issued; (b) Schedule a meeting on barrier effectiveness/merits of barriers.	New